



UNIVERSITY OF
TORONTO

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Remembrance Day
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campuses. At the St.
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service begins at 10:45
a.m. at Soldiers' Tower.
U of T Mississauga's
ceremony is scheduled
for 10:45 a.m. at the
flagstaff in front of
the William G. Davis
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Scarborough holds its
ceremony at 10:45 a.m.
at the Meeting Place.

WWW.NEWS.UTORONTO.CA/
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MEN'S HEALTH
Reproduction
issues
— pages 6-7

NOVEMBER 9, 2010 64th year, number 7

the Bulletin

U of T named 'college sustainability leader'

BY ELAINE SMITH

When it comes to sustainability, the University of Toronto is an excellent student.

U of T earned an A- grade in the 2011 College Sustainability Report Card, a marked improvement from a grade of B last year and one that earns U of T the designation of college sustainability leader.

The report card is an independent evaluation of campus and endowment sustainability activities at colleges and universities in the United States and Canada, prepared by the Cambridge, Massachusetts-based Sustainable Endowments Institute.

The fifth annual survey includes the 300 colleges and universities in the United States and Canada with the largest endowments, plus 22 others that requested inclusion.

"It's wonderful to see that the ongoing efforts by many of our departments are recognized with such a good grade, along with the college sustainability leader designation," said **Cathy Riggall**, vice-president (business affairs). "Our goal is to continue to improve sustainability across all three campuses for the benefit of the environment."

Survey participants are graded in nine equally weighted categories, comprising 52 individual indicators: administration; climate change and energy; food and recycling; green buildings; student involvement; transportation; endowment transparency; investment priorities; and shareholder engagement. Data come from four separate surveys sent to university administrators, as well as publicly available information.

U of T received As in five of the areas: administration, food and recycling; student involvement; endowment transparency; and shareholder engagement, earning Bs in the remaining areas.

The university was cited for strengths such as a commitment to sustainability through a formal plan and parts of its master plan; spending more than half its food budget on local food and offering a wide variety of organic foods; Victoria University's environmental residence; the public nature of its holdings; and existence of a responsible investing committee.

The report card also cites recent innovations such as student-run gardens and reusable takeout containers, as well as food-scrap composting and the availability of fair-trade coffee.

Anne Macdonald, director of ancillary services, said she was delighted U of T earned an A in the area of food and recycling, citing the efforts of

... U OF T ON PAGE 4

FROM WHITE COATS TO BLACK GOWNS



DIANA MCNALLY

MD-PhD students (left to right) Amparo Wolf, Amy Lin and Sagar Dugani pose in a lab at the MaRS complex in their convocation regalia. All three will be graduating during this week's ceremonies, which will also see an honorary degree bestowed upon Dorothy Shoichet.

New assistant vice-president of development appointed

BY AILSA FERGUSON

Bill Simmons, a man with more than 25 years' experience in institutional advancement, consulting, marketing, communications and external relations for non-profit institutions, has been appointed assistant vice-president (university development) within the Division of University Advancement effective Nov. 8.

As assistant vice-president (university development) Simmons will provide

leadership and strategic direction to the central development functions of principal gifts, annual and leadership giving, corporate and foundation relations, stewardship, gift planning and international and regional development. He will also assume interim responsibility for advancement communications and marketing, as well as working closely with **Gillian Morrison**, assistant vice-president (division relations and campaigns),

... NEW ON PAGE 4

Astronaut touches down at U of T

BY LIAM MITCHELL

Canadian Astronaut Robert Thirsk, the first Canadian to live on the International Space Station, visited the University of Toronto Oct. 27 to thank the university for its contribution to his recent space mission.

Thirsk spent 188 days aboard the space station between May and December of 2009. While aboard he was responsible for the maintenance and repair of the ISS, in addition to conducting experiments on behalf of Canadian and international researchers.

U of T's contribution to Thirsk's mission was the Marangoni Experiment in Space (MEIS-2) designed by chemical engineering professor **Masahiro Kawaji**. It sought to understand how a zero-gravity environment impacts the physical processes underlying crystal formation.

If you have ever noticed the "tears" that form when you swirl a glass of wine, you've noticed the Marangoni effect. When a liquid with a high surface tension pulls more strongly on the surrounding liquid than one with a low surface tension, the presence of a gradient in surface tension will naturally cause the liquid to flow away from regions of low surface tension. Because alcohol has a lower surface tension than water, that can cause the tears to appear along the side of the wine glass.

However, this effect also has a significant impact on the manufacturing of semiconductor crystals, which are widely used in electronics. Creating a liquid bridge is one way to produce semiconductor crystals but the Marangoni effect causes convection that needs to be better understood. Gravity has made obtaining precise data on the

... ASTRONAUT ON PAGE 4

LETTER FROM THE EDITOR

Change, not stasis,

is life's gift to us. Without it, we would still be infants, unable to experience the world around us to its fullest. As humans, we are always changing at the cellular level, aging and morphing, and on an intellectual level we are learning and growing.

Yet, many of us fear change, uncertain of the rewards while worrying that it will be difficult to achieve and unsettling to undergo. The technological revolution is a case in point. The adjustment to the digital world has caused great upheaval and the need to accustom ourselves to new ways of interacting with the world, our jobs and each other. But adjust, we must; the world keeps turning with or without our consent.

Change, in fact, is a major theme here at the University of Toronto because isn't all learning about changing our ideas and all research about seeking new information, ways to improve our lives and the world around us? Our centre spread in this issue looks at some of that exciting research, this time in the field of men's health as both infertility and prostate cancer come under the microscope (see pages 6-7).

We also explore some technological changes. U of T is embarking on the creation of a wonderful new tool, the next generation student information system, a system that will be driven by user needs over time, meaning change will be its byword (see page 3). Meanwhile, the history department now offers a course entitled Hacking History (see page 3), a step towards engaging intellectual communities through digital means.

Hang on tight as the winds of change sweep through your lives. It may be unnerving but it's also exciting, so enjoy the ride.

Cheers,

Elaine

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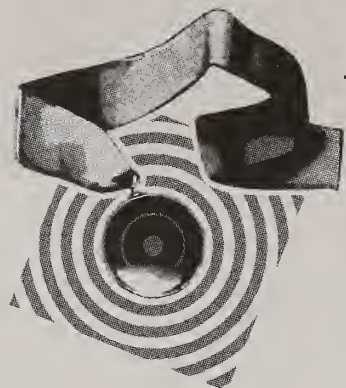
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AWARDS & HONOURS

(one out of two) for Popsy Johnstone's involvement in the gallery's Venice Biennale and at The Power Plant; and the Design Award (one out of six) for Sarah Robayo Sheridan and Chris Kennedy's collaboratively produced publication *James Carl: do you know what*.

ROTMAN SCHOOL OF MANAGEMENT

Professor Beatrix Dart, associate dean (executive programs) and executive director, Initiative for Women in Business at the Rotman School, and **Heather-Anne Irwin**, an adjunct professor of finance, founding president of Women in Capital Markets and executive director of the Canadian Securities Institute Research Foundation, have been named to the International Alliance for Women's World of Difference 100 Awards list for 2010, recognizing women whose efforts have advanced the economic empowerment of women locally, regionally or worldwide whether they are well known or "unsung heroines." Dart joined the list in the education category while Irwin was named to the not-for-profit/NGO category. The list was announced Oct. 25 at an awards luncheon held in Toronto.

U OF T MISSISSAUGA

Rosa Ciantar of language studies and **Julie Waters** of sociology are this year's winners of the U of T Mississauga Staff Service Awards. Ciantar was praised for her intense passion for her work and for the students she helps and was described as "terrific, talented and self-sacrificing." Waters was cited as having infinite patience and doing whatever she can for students who are struggling and in crisis. Professor **Alexandra Gillespie**, who specializes in medieval English, is the winner of the faculty Teaching Excellence Award while **Lisa Robertson** of biology received the teaching assistant Teaching Excellence Award. Gillespie is known among her students as a highly accessible professor who lends her own books, organizes hands-on tours of the Thomas Fisher Rare Book Library and creates "hundreds of 'Eureka!' moments" during her classes. Robertson was cited as the "perfect example of an outstanding teaching assistant, whose passion is not only in research but in teaching as well." Professor **Mohan Matthen** of philosophy was recognized with the Research Excellence Award and praised as a prolific and well-regarded researcher.

DIVISION OF UNIVERSITY
ADVANCEMENT

Michelle Alfano, a researcher at university advancement, is the winner of the 2010 F.G. Bressani Literary Prize of the Italian Cultural Centre in the short fiction category for *Made Up of Arias*. The biennial prize, named after the Jesuit priest, Father Francesco Giuseppe Bressani, the first Italian Missionary to Canada, was instituted to stimulate and enhance the literary production of works by Canadian authors of Italian origin or ancestry to add to the richness of the Italian immigrant experience. Alfano will receive the award Nov. 30 at the museum of the Italian Cultural Centre in Vancouver.

COMPILED BY AILSA FERGUSON

FACULTY OF ARTS & SCIENCE

Professor George Elliott Clarke of English is the recipient of an honorary doctor of laws degree from the University of Windsor. Clarke was cited as having published in a variety of genres — verse collections *Provencal Songs*, *Gold Indigoes*, *Blue* and *Illuminated Verse*, among others; a verse novel, *Whylah Falls*; and two verse plays, *Whylah Falls: The Play* and *Beatrice Chancy*. It was also noted that his opera *Beatrice Chancy* has had four stage productions and was broadcast on CBC Television. As well his 2001 collection, *Execution Poems*, won the Governor General's Award for Poetry. Clarke received his degree and addressed convocation Oct. 16.

Professor Sabine Stanley of physics is the 2010 winner of the William Gilbert Award, given by the geomagnetism and paleomagnetism section of the American Geophysical Union in recognition of outstanding and unselfish work in magnetism of Earth materials and of the Earth and planets. The prize is given annually and in even years (including this year) is restricted to young scientists (either less than 36 years old or less than five years from PhD graduation). Stanley was nominated for important theoretical contributions to our understanding of planetary magnetism. Stanley will receive the award at the section's business meeting and reception Dec. 14 during the AGU fall meeting in San Francisco.

Philosophy professor Evan Thompson's book *Mind in Life* has been selected to receive the 2010 Edwin Ballard Prize awarded by the Center for Advanced Research in Phenomenology for an outstanding book on phenomenology. The prize was announced Nov. 5 during the Society of Phenomenology and Existential Philosophy's meeting in Montreal. The centre was founded in 1971 and was initially concerned with preserving the papers of phenomenologists who had taught in North America. Today the centre uses all means to foster, extend and deepen phenomenology and kindred continental thought in philosophy, the social sciences and humanities wherever it can.

HART HOUSE

The Justina M. Barnicke Gallery at Hart House won an unusually high number of awards in the 33rd Legendary OAAG Awards, held Sept. 24 in the Great Hall, Hart House. This year 27 Ontario Association of Art Galleries member galleries in 20 cities across Ontario were nominated for 21 awards in 10 categories. The gallery won Exhibition of the Year (one out of two awarded) for Noise Ghost: Shuvina Ashoona and Shary Boyle, curated by Nancy Campbell; the Curatorial Writing Award (two out of three) for the exhibition catalogue texts of *South-South: Interruptions & Encounter* and *Funkasethetics: One Alien-nation Under a Groove*; the Volunteer Award

Congratulations

to the Varsity Blues Women's Field Hockey Team,
2010 NATIONAL CHAMPIONS

The Blues defeated the defending champion UBC Thunderbirds 2-1 in the championship final for U of T's 11th national field hockey title.

Welcome to IT's next generation

BY KELLY RANKIN

Just like the floppy disk, the university's ROSI (repository of student information) system has outlived its usefulness. Installed in the latter years of the 20th century, ROSI was implemented to mitigate the risk of Y2K.

However, instead of simply upgrading or rewriting ROSI, the university has begun planning and developing the next generation student information system (NGSIS). In order to ensure that students' needs drive the technological development, the executive co-sponsors of the project are Professors **Jill Matus**, vice-provost (students), and **Scott Mabury**, vice-provost (academic operations).

The NGSIS mission is straightforward: make functionality and students' needs the focal point and build a system that responds to those needs throughout the entire student lifecycle, from the prospective student's experience to graduation.

"We want a system that will allow students to interact with the university and navigate all the processes they need to go through in the most comfortable and user-friendly way possible — truly a student-centred system," said Matus.

The design concept for NGSIS is based on modularity, flexibility and decentralization. It

must be able to accommodate new components, as well as change or remove existing components as requirements warrant. In addition to ensuring the system remains current, this design model will encourage greater input from across all three campuses and make it easier for the community to have a hand in developing the system.

"THIS IS A VERY INCLUSIVE, COLLABORATIVE PROCESS, INVOLVING EXPERTISE FROM ACROSS THE UNIVERSITY."

PROFESSOR JILL MATUS

"NGSIS is hybrid in many ways; we might buy off-the-shelf software, hire programmers externally, or hire students or do the programming internally," said Mabury. "The idea is that the system should allow the addition of components, and we will acknowledge investments by divisions and where we see the value of a project for the entire university we will negotiate with the developers to make it available system-wide."

The flip side to this is that improvements are being driven by insights from staff who work with the current system

and interact with students on a daily basis. By mapping current processes against student needs, gaps can be identified and better processes developed.

"This is a very inclusive, collaborative process, involving expertise from across the university," said Matus.

For example, recently a system-user group was formed to look at the current residence application process and make recommendations on the development of a new process. The group included registrars, student life professionals, housing office staff and IT staff. They identified how to better meet the needs of students by means of a process for residence application that is easy for students to access and follow and that will also allow data sharing among staff across colleges and campuses.

"We want to build an overall new generation student information system that allows us to adapt and improve how we use it, as opposed to being constrained by it," said Mabury. "It goes right to the heart of the student experience."

Key to the overall success of NGSIS is to have continual system development and improvement.

Follow upcoming issues of *the Bulletin* to read more about NGSIS and specific projects currently underway.



JOHNNY CUATTO

Professor Matthew Price teaches an innovative course about the history of computer hacking.

Hacking History course looks towards future

BY KELLY RANKIN

Hacking History is a play on words.

To start with, it's the title of a new fourth-year undergraduate course that teaches students about the history of hacking. It also defines what the students will be doing: hacking history.

Professor **Matthew Price** of history, who teaches the course, defines a hacker as someone with a sustained compulsive interest in the inner workings of something and hacking itself as a mode of relating to a problem.

The students will be hacking history by examining its scholarly processes in order to broaden its reach and to inspire public discourse in intelligent and thoughtful ways.

The course is a template for the new initiative at the history department called History and Its Publics, a program that focuses on digital intellectual communities. "It is an effort to extend the department into the digital sphere and engage more extensively with the communities around us," said Price.

The intellectual foundation for the course is the way in which the public sphere has changed because of digital media and how this has made the university less central in defining public discourse compared with 50 years ago.

"We as academics have to engage more profoundly with public discourse in its own terms but also as an influence that shapes public discourse," said Price.

In the field of history, source material is available in a way

it hasn't been in the past. It's now possible for an amateur to do the same kind of research that a professional does. "This is great for professional historians and it's good for the hundreds of thousands of amateur historians," said Price.

"By engaging with these communities, then we can help ensure the work these amateurs do is informed by the thoughtful tradition in which we ourselves engage," he added.

Hacking History combines the notions of contributing to thoughtful and rigorous discourse and contributing to the public sphere with the aim of making students more comfortable with technology.

In the first semester students attend seminars and learn about topics such as the history of the Internet, ideas about the public sphere and how it is affected by digital media. Instead of writing a typical response paper, students post their responses to the course readings on the Hacking History blog (www.hackinghistory.ca).

The blog gives students a sense of how electronic media differ from paper and it changes the dynamic of in-class discussions. Students arrive at the seminar prepared because they know in advance what positions have been staked out by their classmates.

Students also attend labs — something out of the ordinary for humanities students — where Price teaches them basic technical skills about how the web works and how to set up a website. He said students should feel emancipated by their computers, not constrained by them.

Access: research must be available and easy to find

BY KELLY RANKIN

U of T Libraries' four-day series of tri-campus Open Access Week talks included a practical presentation about open scholarship and the future of scholarly communications.

The lecture, given by OISE PhD student **Stian Haklev**, was a fitting end to the fourth annual event that included participation by 40 groups from countries such as Japan, South Africa and Ireland, with some presentations being delivered via webcast and other online presentation-sharing media.

The week provides an opportunity for the academic and research community to learn about the potential benefits of open access, to share what they've learned with colleagues and to help inspire wider participation in open scholarship.

Haklev defined an open scholar as someone who not only allows free access and reuse of his or her scholarly

work but makes the intellectual projects and processes digitally visible while encouraging ongoing criticism of his or her work and secondary uses of any or all parts of it — at any stage of its development.

"I want my research to be part of the scholarly discourse," explained Haklev.

The first step in making that happen is to move beyond the established notions of open access — that peer-reviewed research should be available to everyone free of cost.

"Open access is a huge step for people already," he acknowledged. However, Haklev thinks scholars could benefit a great deal from developing strong online profiles and utilizing the growing array of electronic resources.

For example, many traditional journals allow researchers to self-archive. So, why not post published articles on a personal website or in a digital media repository, such as U of T's T-space <https://tspace.library.utoronto.ca/>

Doing this allows researchers to continue having their work peer reviewed — an important step in the tenure process — as well as exposing their work to an audience beyond the journal's general readership.

However, making research available is only part of the solution. It is also important to make it easy to find. Haklev said what makes digital repositories ideal tools for exposing research is they will persist longer than most personal websites and the information stored is tagged with metadata, making it easier for search engines to locate.

He also suggested posting work in more than one place, such as subject specific repositories like the Education Resources Information Center (ERIC), www.eric.ed.gov or arxiv.org for physics papers, and that scholars should also consider submitting articles to one of the open journals listed in the directory of open access journals, www.doaj.org.

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Leading Sunnybrook experts will discuss:

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- **Drug Treatment Options:** Dr. Nathan Herrmann, Associate Scientist, Sunnybrook Research Institute
- **What Can I Do to Lower My Risk?** Dr. Jocelyn Charles, Medical Director, Veteran's Centre and Interim Chief, Department of Family & Community Medicine

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 **Sunnybrook**
HEALTH SCIENCES CENTRE

U of T named sustainability leader

CONTINUED FROM PAGE 1
foodservices director **Jaco Lokker** and marketing and communications co-ordinator **Sarah Khan** as essential, given "their creativity and enthusiasm and their commitment to continually improving what we do each year."

Macdonald sees local, sustainable food procurement as the core of the enterprise, sourcing food that meets

certain environmental and ethical criteria and helping to raise awareness about local food production. She also credits the Waste Management Department for lending support to foodservices' waste reduction initiatives.

Ron Swail, assistant vice-president (facilities and services), said U of T's commitment to sustainability is longstanding, with new efforts being intro-

duced all the time. Results are presented in a new interactive display at the exam centre.

"We've been involved in sustainability and conservation for almost 40 years," he said. "We plan to continue with our energy-efficient changes. It's not only environmentally responsible, it's cost effective, too."

For detailed survey results, www.greenreportcard.com.

New assistant vice-president named

CONTINUED FROM PAGE 1
in the planning and implementation of U of T's institutional campaign.

Simmons comes to U of T with an impressive record of achievement. Most recently, as senior vice-president of fundraising consultancy Grenzebach Glier and Associates (GG+A), he served a diverse range of clients in the United States and Canada, including

the University of Toronto, Concordia University, the University of Montreal and the University of British Columbia.

From 2003 to 2006, Simmons served as vice-president (advancement) for Stony Brook University (State University of New York) and executive director of the Stony Brook Foundation where he developed comprehensive fundraising and alumni

relations programs and initiated the university's first university-wide \$250 million campaign.

Simmons became familiar with U of T when, as a lead GG+A consultant, he worked closely with academic leaders and advancement staff on the comprehensive external program review of advancement at U of T and on planning for the coming institutional

Astronaut touches down at U of T

CONTINUED FROM PAGE 1
Marangoni effect difficult on Earth, so outer space provides a perfect environment to conduct this research.

The results of the experiment are still being analyzed.

Kawaji said that more than three terabytes of data were collected and this information will help to better understand the transition from steady to oscillatory Marangoni flow as well as

the effects of g-jitter (random vibrations) on the liquid bridge. That knowledge, in turn, can be used to develop higher quality and more efficiently produced semiconductor crystals.

"We were very proud of our association with the University of Toronto and the contribution Dr. Kawaji made to our mission through the MEIS-2," Thirsk said.

Thirsk also participated in an information session for graduate students, where he detailed his experience aboard the ISS.



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U of T volunteers | Volunteering for veterans

BY JENNIFER LANTHIER

Some veterans are keen to talk about their service; others would rather talk about anything else. Either way, **Arlene Smith** is happy to listen.

A business officer with the Department of Chemical Engineering and Applied Chemistry, Smith has volunteered for 35 years with Army, Navy and Air Force Veterans in Canada, a service organization.

"It goes back through the generations — my parents were both members and my grandfather was a veteran," Smith said. "My children are members and now my grandchildren come to the parties."

Although not as large as the Royal Canadian Legion, ANAVETS is proud of its longevity; Queen Victoria signed the charter for its first unit. Founded in Montreal in 1840, ANAVETS has about 16,000 members today in 68 units across Canada.

"Our mandate is to provide a social environment for veterans and their families, so we have a dart league, we play euchre, there's a karaoke night and we hold dances," Smith said. "Another part of our mandate is to assist veterans in any way we can."

"Our headquarters in Ottawa works very closely with Veterans' Affairs for the betterment of veterans across Canada and we act as a liaison for people seeking information or help."

Originally only veterans and their descendants could belong but today membership is open to anyone who supports the cause, said Smith.

Smith's unit visits the veterans who live at Sunnybrook Health Sciences Centre and also hosts a day out for some of them in July.

"In the summer we have a barbeque and play bingo and at Christmastime we have a party where we bring in singers to perform for the veterans and a Santa Claus who gives out gifts," Smith said. "But the veterans are very busy — you

have to book them a year ahead because there are a number of organizations like ours who want to do things for them."

All the veterans are proud of their service but some "have seen horrors we can't begin to imagine and they don't want to say a word," she said. Still, there are stories she can't forget.

"I heard about one family of three sons from a small town in Ontario who all signed up at the same time and got into the same regiment," she said. "And on the very first day that they saw battle, one of the boys was killed. You really feel for that family."

ANAVETS is also trying to engage new veterans and their families, Smith said, but she added that is easier to do in cities with bases close by. Her Toronto unit interacts mostly with veterans of the Second World War and Korean War.

"Sunnybrook has beautiful gardens and a wonderful therapy room that we've supported and they do a lot for them, but the veterans do like to get out," Smith said. "They have to take turns but last year at our barbecue we had a busload of 24 veterans and this year we'll probably have about the same."

Smith admires the Lest We Forget project on cenotaph research launched by high school teacher Blake Seward of Smiths Falls in 2001. The project, which has become a national program supported by Library and Archives Canada, has students pick a name from their local cenotaph to research, using as many local resources as possible to create a picture of the soldier.

"There are so many stories to tell and if you can connect with the person it's easier," said Smith. "But the world wars were a long time ago and the veterans are very old, and they're dying. It can be hard to keep children knowledgeable about why we have Remembrance Day and why they are able to enjoy the freedom they have today."



BRYAN MCBURNEY

TEN QUESTIONS

PROFESSOR IRA JACOBS, DEAN, FACULTY OF PHYSICAL EDUCATION AND HEALTH

Professor Ira Jacobs joined U of T this summer after spending three years as chair of York University's School of Kinesiology and Health Science. Prior to 2007, Jacobs, a physiologist who earned his PhD at Sweden's Karolinska Institute, worked for the federal government's human performance laboratory where he initiated and led an international research group that helped military special operations units enhance performance through nutritional and pharmacological strategies.

1. What drew you to exercise physiology as a research specialty?

I discovered as a high school athlete that "trying hard" wasn't enough and that there were individuals who trained less than I did, yet seemed to reap more physical fitness benefits. I remain intrigued to this day about how our physiology limits functional capabilities in healthy humans and strategies for overcoming those limitations.

2. How can the work you did regarding military special operations groups be applied to the general population?

That research focused on enhancing the performance, or reducing the performance impairments, of very healthy and fit people who have to work in very stressful and hostile environments ... the kind of environments that will eventually and inevitably cause performance impairments. The environments in which they work can include high terrestrial altitude, underwater, hot or cold environments, sustained operations involving sleep-deprivation, prolonged periods of physical exertion, rapid changes in time zones as they are transported quickly around the world, etc. We worked on the development of safe physiological, nutritional and pharmacological approaches as counter-measures to those stressors. Although the research results may not be applicable to the general population, some of the strategies we developed are directly transferable to non-military occupations where similar stressors are encountered, like first-responders to emergencies (police and firefighters) or other physically demanding occupations, and also to high performance athletes.

3. Have you found many differences between being dean of a faculty and chair of a school?

Yes, I'm more vulnerable to kryptonite now :).

All kidding aside, I'm not so sure I'm the right person to ask yet since I've been a dean for all of four months. But, the scope of my job as a dean includes many more advocacy activities on behalf of my faculty outside of our academic unit as well as outside of the university. Advancement activities (a euphemism for fundraising), interacting with different levels of government and working with alumni all occupy more of my time than when I was a department or school chair. Also, the timeframe I focus on is different; as a dean I think I need to find a balance between projecting and anticipating what is needed to inspire today's students on the one hand and on the other, those who will be entering our program five and 10 years from now.

4. How do you, yourself, stay fit?

Aerobic training: my seven-year-old son and 10-year-old golden retriever.

Strength training: a few hours weekly in the gym.

5. Are you also a sports fan? Any favourite teams?

Yes, those that wear blue.

6. What book(s) is on your bedside table?

Spark: the revolutionary new science of exercise and the brain by John J. Ratey.

7. What is your favourite meal?

Diced cucumbers and tomatoes, cottage cheese, all mixed together with a hardboiled egg and balsamic salad dressing.

8. Do you have a favourite spot where you go to think?

I take an extra long walk with the dog on weekends through the Settlers Creek ravine in Thornhill, Markham. That's when the dog and I do all of our strategic planning together.

9. Is there a dream vacation you'd like to take?

Canoe trip on the Nahanni.

10. What music is on your iPod or your car stereo?

A mix of k.d. lang, Lightfoot, classical guitar adagios, Kamakawiwo'ole.



Arlene Smith is committed to assisting veterans. (See page 1 contents box for Remembrance Day service information.)

CAZ ZVATKAUSKAS

MEN'S HEALTH

University of Toronto a hub for infertility research;
also moving forward on treating prostate cancer

ADVANCES MADE IN PROSTATE CANCER TREATMENT

BY JENNIFER LANTHIER

If a colleague is twirling a handlebar moustache this month, you can probably thank Let It Grow — an international campaign that uses facial hair to raise awareness of prostate cancer during November.

Prostate cancer is the most diagnosed malignancy among North American men. Yet treatments — from surgery and radiation to hormone therapy — traditionally carry risks such as sexual dysfunction and incontinence. But researchers at U of T are breaking new ground in prevention, diagnosis and treatment.

“The thing we’re probably best known for around here is the active surveillance concept,” said Professor **Laurence Klotz**, chief of the division of urology at Sunnybrook Health Sciences Centre.

Pioneered by Klotz’s group at Sunnybrook, active surveillance balances early detection and aggressive monitoring of prostate cancer with delayed intervention where monitoring indicates a patient is at low risk. As more data have emerged that support active surveillance, “the whole world has come around to this way of thinking,” but Klotz encountered resistance at first.

“Many patients are diagnosed with prostate cancer whose lives are not threatened by it but more than 90 per cent of patients were being treated and the treatment has significant side effects,” Klotz said. “We set out more than 10 years ago to change that and we were a voice in the wilderness originally.

“For patients with a new cancer diagnosis, to be told they don’t need treatment when it’s a disease that can be lethal was fairly shocking. But we won the day.”

Active surveillance is not to be confused with watchful waiting, an earlier approach used by some physicians, which gave patients no opportunity for definitive local therapy. Active

surveillance involves closely monitoring the biomarker prostate-specific antigen (PSA) and repeating biopsies to identify the subset of men who would benefit from radical therapy.

If a patient reaches the stage where surgery is needed, he may benefit from a new technique Klotz has developed, combining magnetic resonance imaging with thermal ablation (removal) to destroy tissue.

“You can use MRI to give you a thermal map of internal tissues that’s updated every three to five seconds,” Klotz said. “If you’re using a thermal ablation type of therapy where you’re heating tissue, the ability to do it with precision, where you heat just to a certain temperature and then stop, is huge.”

Precision is the key to success with any minimally invasive therapy, Klotz said.

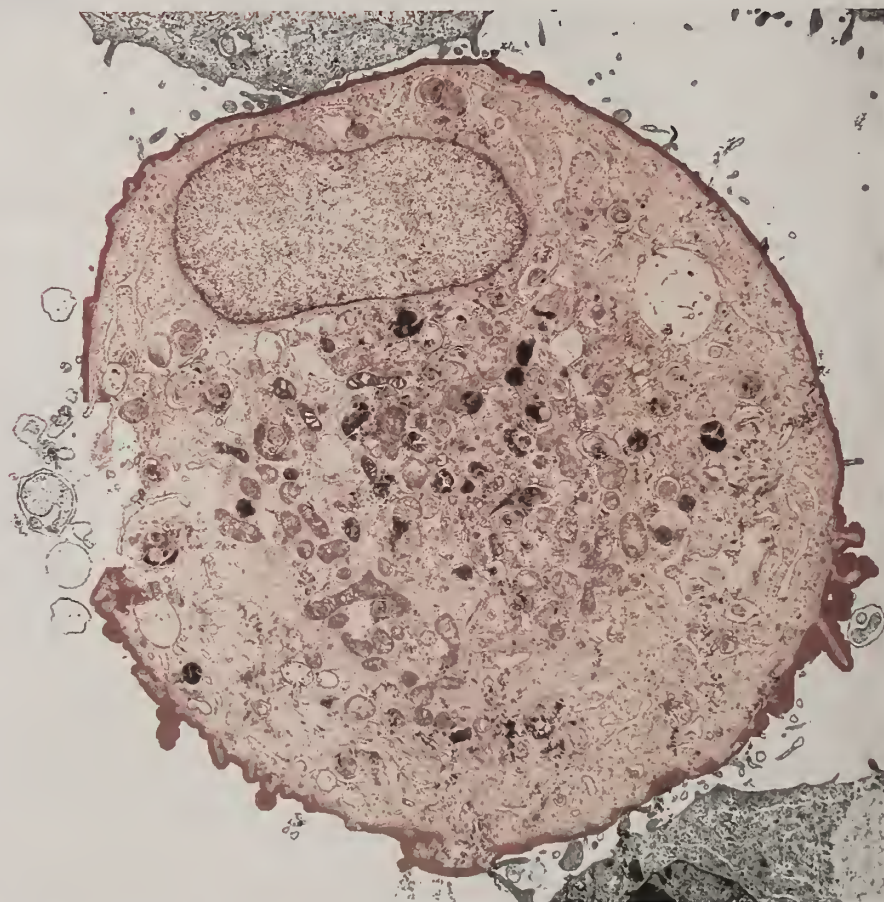
“Particularly the prostate is in an area where there are a lot of critical structures around: the sphincter, the neuro-vascular bundle required for preservation of erectile function, the rectum,” he said.

Using a special ultrasound transducer placed in the urethra, the surgeon generates ultrasound waves that are absorbed by tissue. So far, about eight patients have had the procedure.

“The system waits until the area you’ve targeted is heated to a point where the cancer is destroyed and then it rotates so the whole prostate gets treated,” Klotz said. “It’s very quick — it takes about half an hour, while other techniques typically take three to four hours to do this.”

Today, the procedure is performed only on patients having their prostates removed for cancer, in hopes it will reduce the chance of finding cancer outside the prostate after surgery. “The ablation is done earlier the same day, virtually the same anesthetic,” said Klotz.

“The tissue is ablated to an area within about one millimeter of what we targeted which is phenomenal,” Klotz said. “So we’re just planning the next stage which will be to actually treat cancer, see how effectively we can image and



A prostate cancer cell.

treat cancer, followed by the removal of the prostate to prove that.

“And then the next step will be to actually use this for primary treatment. But we’re still probably about two years away from that, to where it is the only treatment patients would get.”

Klotz is also researching the role of micronutrients in the prevention of prostate cancer.

“The main things we’re interested in are capsaicin, metformin and some other anti-oxidants like lycopene,” Klotz said. “We’ve had some remarkable results in animal models and we’re just starting some human studies.”

Capsaicin — the active component of chili peppers — looks particularly promising as a prostate cancer prevention agent, Klotz said.

“I actually first got into this because we had a patient who got interested in this as a folk medicine approach,” Klotz said. “He put himself on very high doses of this hot sauce, and although things hadn’t been looking too good for him, his PSA stabilized.”

However, the capsaicin began interfering with the patient’s blood pressure medication. On the advice of his internist, the patient discontinued using capsaicin, only to see his PSA start to go up again. Curious, Klotz used high-performance liquid chromatography to analyze the sauce the patient had used.

“It basically consisted of capsaicin and lycopene, so now we’re studying that in these animal models and tissue culture and it looks very promising.”

PRESERVING FERTILITY

BY JENNIFER LANTHIER

Surviving childhood cancer comes at a cost; along with temporary but gruelling side effects, the life-saving treatments children receive may render them infertile as adults.

Enter Dr. **Kirk Lo**, assistant professor of urology.

"In adolescents and young adults, chemotherapy and radiation can wipe out sperm production permanently in about half of patients — it depends on what kind of cancer and what kind of therapy they receive," said Lo. "So we advise them to bank sperm if they can and we're trying to make that option accessible."

With survival rates for many pediatric cancers approaching 70 to 80 per cent, post-therapy infertility is a problem that could affect many thousands of young men in years to come. So Lo is working with the Pediatric Oncology Group of Ontario to develop guidelines around fertility counselling and sperm banking for young cancer patients. But for boys whose cancer strikes before puberty there are no sperm to store.

"We've had quite a few requests to preserve stem cells from the testes of these patients before the chemotherapy in the hopes that if they survive, we can use this to establish sperm production in the future."

Across the globe, researchers are trying to grow sperm from stem cells. Scientists are so confident the puzzle will be solved that hospitals in some countries have established clinical and research protocols to harvest cells from young cancer patients for later use.

"We would go in and take out tiny pieces of testicular tissue when the patient is having another procedure done under general anesthesia — but it is an invasive procedure nonetheless so people have concerns," Lo said. "They say: If you do not have a reliable way to grow sperm today, is it ethically justifiable to perform an invasive procedure on these boys, who already have cancer?"

"But we ask, Is it ethical not to preserve their fertility?"

In a research project supported by the National Institutes of Health, Lo is grafting human testes cells onto immune-deficient mice and experimenting with ways of encouraging the tissue to grow and mature to the point where it could produce sperm.

"The cells are starting to divide and we're basically at the stage where we're trying to determine what kind of factors we need to simulate puberty, what kind of change in environment," Lo said. "So we're challenging it with different agents including gonadotropins."

"We can see the germ cells go from gonocytes to becoming spermatogonia and a paper from Japan came out this year saying they've seen them start to differentiate into spermatocytes. So we're competing to see who gets there first."

These experiments won't necessarily produce "a final technique," Lo said, but they may help establish the viability of the concept.

"If we can prove that it is possible to grow sperm outside of humans, then more people will find it acceptable to start banking testicular stem cells from these patients," he said.



Professors Keith Jarvi (left) and Kirk Lo in the ultrasound lab at Mt. Sinai hospital's urology unit.

The concept still requires fine tuning, Lo said, but given the sophistication of in vitro fertilization programs, "all we need is a single sperm" to allow a boy who survives cancer today to become a father in a decade or two.

Lo's work is "groundbreaking and incredibly important," said Professor **Keith Jarvi**, head of the men's fertility program at U of T.

"He is one of the first investigators in the world to mature these testes," Jarvi said. "He's gone from a couple millimeters to almost one centimetre in size, so it's increased multiple-fold."

The potential applications for Lo's research extend beyond preserving fertility.

"It's also a model for chemotherapy, for looking at how to reduce or prevent the toxicity of the chemotherapy,"

Jarvi said. "He's building a human testes model in an animal that would be able to tell him if there were chemotherapeutic agents for this age group that were less toxic or if there were ways of avoiding the toxicity — for example, by giving them some protective agents at the same time."

Although his focus now is on preserving fertility, Lo hopes his model might eventually provide a way to test more than drugs.

"We can introduce toxins at any stage and see if it affects stem cells, does it affect cell division or cell death," Lo said. "The applications for this are huge because we can use this to find out what can go wrong, we can restore fertility and in the future it could be a way to test the effects of new drugs."

MALE INFERTILITY ADDRESSED AT U OF T

BY JENNIFER LANTHIER

When the U.S. Centers for Disease Control convened its first-ever conference on men's reproductive health in September, one Canadian researcher attended: Professor **Keith Jarvi**.

Jarvi, a micro-surgeon who directs the male infertility program at U of T, is head of urology at Mount Sinai Hospital and director of the Murray Koffler Urologic Wellness Centre.

"We have the biggest infertility clinic in Canada right here," said Jarvi. "And we've trained fertility fellows from across Canada, we've trained people who now work in South America, the United States, Europe, the Middle East — we have a really big academic program here in male fertility."

Yet 20 years after the birth of the first test-tube baby, reproduction is still largely viewed as a women's health issue.

"Men don't tend to be as protective of their health; the drivers are the women," Jarvi said. "But they have similar rates of depression with infertility and diminished quality of life."

Jarvi welcomed the CDC conference, which declared "the ability to have a responsible, satisfying and safe sex life and the capability to reproduce as well as the freedom to decide if, when and how often to do so" as its working definition of men's reproductive health.

"They're looking at men throughout their lifetimes, so for younger males it's sexually transmitted diseases and how to prevent unwanted pregnancy," Jarvi said. "But as they become young adults, fertility becomes an issue."

Today, an estimated 19 per cent of couples in Canada

have infertility issues and a male factor contributes about half the time, Jarvi said.

"The numbers are approximate, but between eight and 10 percent of men have fertility issues," said Jarvi. "So it's a huge issue."

Developing less invasive ways to identify and treat fertility problems is a priority for researchers and U of T has groundbreaking work in that area, Jarvi said.

"About 20 per cent of men with infertility have no sperm in the semen and that's the worst kind, the most severe kind of infertility," he said. "They may not be producing sperm at all or they may be producing it but it's blocked, it's obstructed and can't get out."

Differentiating between the two types of patients is key because "it opens up a whole host of different therapies and options," Jarvi said. But traditionally that requires a testicular biopsy.

"You have to take a piece of testicular tissue and examine it to see if it's working or not," he said. "Because that's an invasive procedure, there is risk, it's painful, there's a recovery time."

In a bid to avoid biopsies, Jarvi is collaborating with Professor **Eleftherios Diamandis**, head of clinical biochemistry in the Department of Laboratory Medicine and Pathobiology, on a project to identify biomarkers in semen.

"We have found markers that, so far, have been extremely sensitive in predicting sperm or no sperm in men who have no sperm in ejaculation," Jarvi said. "MaRS innovation has picked it up and it's being patented now."

"It's hard to say how widespread the use will be but it potentially could be used by millions of people across North America. It could have a very large impact on the

way we treat men with infertility."

And it's the kind of multidisciplinary collaboration the Murray Koffler Urologic Wellness Centre was designed to encourage.

"There's a tight interaction between clinicians and researchers — we're right beside each other," Jarvi said. "It may sound strange in an era when you can have direct connection with someone in Australia, but it does make a difference having someone next door."

In fact, a suggestion from a colleague in gynecology opened up another new approach for Jarvi's team in determining whether testicles are functioning.

"Some men with infertility may be producing sperm in only a little bit of the testicle," he said. "Now, what we have to do for those patients is open the testicle wide in a three-hour operation."

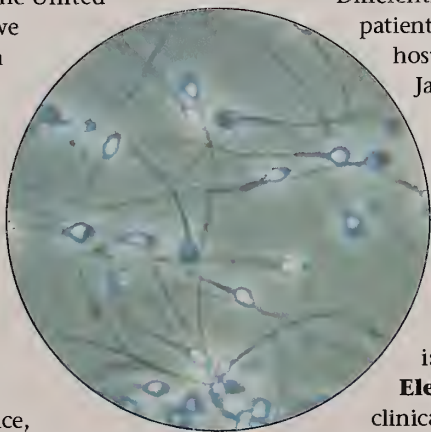
Surgeons piece through the entire testicle "to try to find these little areas" that look encouraging, Jarvi said.

"Under a high-powered microscope we can say these look like they have sperm, we take them out, dissect them and find sperm," Jarvi said. "This operation has been used for close to 10 years now and it's successful in finding sperm, although by successful I mean 50 per cent of the time we find sperm."

Harvested sperm is then used with in vitro fertilization and the success rate of the procedure draws patients from all over the world. But a colleague in gynecology suggested Jarvi might find an alternative to "cutting these guys open" by using high-resolution ultrasound.

"It took us four years to get approval from Health Canada but we started on Sept. 17," he said. "Now we can literally look at something that's smaller than the size of a hair, a centimetre deep inside the testicle."

"We can now say, OK, you have larger tubules so you're more likely to have sperm — but if you don't have the larger tubules, you may be able to avoid the surgery."



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The Correspondence of Wolfgang Capito: Volume 2: 1524-1531, edited and translated by Erika Rummel, with the assistance of Milton Kooistra (U of T Press; 544 pages; \$165). Wolfgang Capito (1478-1541) was one of the most important figures of the Reformation in southern Germany, a leading churchman who turned from Catholic to Protestant. This volume, the second of three, is a fully annotated translation of Capito's existing correspondence covering the years 1524-31, during which the reformation took root in Strasbourg. It was characterized by the strenuous efforts of Capito and his fellow reformer Martin Bucer to enlist the support of the city council in establishing an

evangelical church, to vanquish Catholic opponents in court, in polemical writings and public disputations.

Moral Taste: Aesthetics, Subjectivity and Social Power in the Nineteenth-Century Novel, by Marjorie Garson (U of T Press; 544 pages; \$80 cloth, \$35 paper). Drawing on the theories of Pierre Bourdieu, this study discusses a number of Victorian texts that treat esthetic refinement as an essential mark of proper middle-class subjectivity. It situates each text in its historical moment and considers it in the light of contemporary anxieties, providing insights into why certain ways of representing and endorsing tastefulness remained serviceable for many decades. In addition, it demonstrates how the discourse of taste engenders a wider discourse about middle-class subjectivity and entitlement, national character and racial identity in the period.

A History of Ukraine: The Land and Its Peoples, by Paul Robert Magocsi (U of T Press; 896 pages; \$120 cloth, \$54.95 paper). In this fully revised and expanded second edition, the author examines recent developments in the country's history

and uses new scholarship in order to expand our conception of the Ukrainian historical narrative. New chapters deal with the Crimean Khanate in the 16th and 17th centuries and new research is incorporated on the pre-historic Trypillians, the Italians of the Crimea and the Black Death, the Karaites, Ottoman and Crimean slavery, Soviet-era ethnic cleansing and the Orange Revolution. The many maps that appear throughout have been thoroughly updated, while new information on Ukraine's peoples has been added and Ukraine's diasporas discussed.

Sport and Culture in Early Modern Europe — Le Sport dans le Civilisation de l'Europe Pré-Moderne, edited by John McClelland and Brian Merrilees (Centre for Reformation and Renaissance Studies; 436 pages; \$37). Despite their importance to the social and professional life of medieval and Renaissance people, the athletic games of early modern Europe have traditionally received little attention from academics. This volume of 20 essays in English and French deals with a wide range of sports from the 13th through to the 17th century, placing them within a variety of larger contexts. The focus of the papers has been to show that early modern sports were not isolated, discrete pursuits but were thoroughly integrated into the social, intellectual, religious, technological and literary frameworks of their time.

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The Wiegand Memorial Foundation Lecture Series

RELIGION & OTHER MEANING SYSTEMS

DAVID SLOAN WILSON
SUNY Distinguished Professor of Biology and Anthropology
Binghamton University

Monday, November 15, 2010
6:00 p.m.
George Ignatieff Theatre, 15 Devonshire Place

FREE ADMISSION
General Seating
For more info or accessibility assistance:
416.946.5937 or email events@artsci.utoronto.ca

How does the experience of the religious believer differ from those who regard themselves as secular? Professor David Sloan Wilson argues that both can be understood in terms of secular and religious meaning systems which can help us construct new meaning systems adapted to solve the problems of modern existence.

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U of T STAFF & FACULTY



LECTURES

Reading Obama: Dreams, Hope and the American Political Tradition.
Thursday, November 11
Prof. James Kloppenberg, Harvard University. Vivian & David Conference Facility, Munk School of Global Affairs. 4 to 6 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. *Study of the United States*

Adventures in Animal Behaviour.
Sunday, November 14
Prof. Suzanne MacDonald, York University. Auditorium, Medical Sciences Building. 3 p.m. *Royal Canadian Institute*

Flexible Diplomacy of Taiwan & Its Relation to Cross-Strait Reconciliation.
Monday, November 15
Prof. Francis Tsu-ching Hu, Tunghai University, Taiwan. Cheng Yu Tung East Asian Library, 8th floor, Robarts Library. 1 to 3 p.m. RSVP: lucy.gan@utoronto.ca; 416-978-1025. *Cheng Yu Tung East Asian Library*

Religion & Other Meaning Systems.
Monday, November 15
Prof. David Sloan Wilson, Binghamton University; Wiegand Memorial Foundation lecture. George Ignatieff Theatre, 15 Devonshire Place. 6 p.m. *Arts & Science*

Interdisciplinarity.
Tuesday, November 16
Pat Hanson, founding partner of gh3. Room 103, 230 College St. 6:30 p.m. *Architecture, Landscape & Design*

The Presbyterian Reformed Church in Cuba and Its Contribution to the Socializing Process Among the Preteen and Teen Population.
Wednesday, November 17
Prof. Nelson Alejo Davila-Rodriguez, 2010 Anne Duncan Gray Scholar, Emmanuel College. 302 Emmanuel College. 4 p.m. *Emmanuel College*

How to Hume a Hegel Kant.
Thursday, November 18
Prof. Kenneth Taylor, Stanford University; UNESCO World Philosophy Day lecture. 100 Jackman Humanities Institute. 3:15 p.m. *Philosophy Course Union*

The Impossible Gift of Love in The Merchant of Venice and the Sonnets.
Thursday, November 18
Prof. David Schalkwyk, Folger Institute. Chapel, Emmanuel College. 4 p.m. *Reformation & Renaissance Studies and English*

La curva sinuosa della narrativa italiana: 1999-2009.
Thursday, November 18
Simone Sarasso and Jadel Andreetto, writers. 405 Carr Hall, St. Michael's College, 100 St. Joseph St. 4 p.m. *Italian Studies and Emilio Goggio Chair in Italian Studies*

The Civil War of 1812: A North American History.
Thursday, November 18
Prof. Alan Taylor, University of California, Davis; Margaret MacMillan lecture in international relations. George Ignatieff Theatre. 5 p.m. *Trinity College*

The Importance of Sleep: A Wake-Up Call.
Sunday, November 21

Prof. Michael Sole, medicine. Auditorium, Medical Sciences Building. 3 p.m. *Royal Canadian Institute*

Meeting Everyone's Need for Computing.
Tuesday, November 23
Prof. Mark Guzdial, Georgia Institute of Technology. 1180 Bahen Centre for Information Technology. 11 a.m. *Computer Science*

Pots on the Sea: Medieval Middle Eastern Ceramics in Europe.
Wednesday, November 24
Prof. Rob Mason, Near and Middle Eastern civilizations. 1190 Bahen Centre for Information Technology. 5:15 p.m. *Archaeological Institute of America, Toronto Society*

COLLOQUIA

Using the MacArthur Competence Assessment Tool: How Do You Use It? How Do You Score It? What Are the Pitfalls?
Wednesday, November 24
Speakers: Wanda Mar, research co-ordinator, and David Mamo, geriatrics psychiatrist, Centre for Addiction & Mental Health; panel: Carol Borlido, Dielle Miranda, Regina Simon, Centre for Addiction & Mental Health; brown bag research ethics discussion. Room T321, 33 Russell St. Noon to 1 p.m. *Addiction & Mental Health*

SEMINARS

Relative Income and the Life Satisfaction of Older Adults in Canada.
Thursday, November 11
Prof. Rafael Gomez, Centre for Industrial Relations & Human Resources. Ste. 106, 222 College St. Noon to 1:30 p.m. *Life Course & Aging*

Pastiche With a Purpose: Revivals and Revisions of Hong Kong Martial Arts Action Cinema.
Thursday, November 11
Panellists: Clement Cheng, co-director and screenwriter of *Gallants*; Prof. Katherine Spring, Wilfrid Laurier University; Colin Geddes, Toronto film programmer; Bart Testa, senior lecturer, Cinema Studies Institute. 208N Munk School of Global Affairs. 4 to 6 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. *Asian Institute and Toronto International Reel Asian Film Festival*

One Woman's Life: Rethinking Gender and Revolution in Vietnam.
Friday, November 12
Prof. Hue Tam Ho Tai, Harvard University. 208N Sidney Smith Hall. 10 a.m. to noon. Registration: webapp.mcis.utoronto.ca/Events.aspx. *Canada Research Chair in Southeast Asian History*

Evolutionary Genomics of Plant Adaptation and Speciation.
Friday, November 12
Prof. Loren Rieseberg, University of British Columbia. 432 Ramsay Wright Building. 2 p.m. *Cell & Systems Biology*

Aging.
Tuesday, November 16
Prof. Em. Blossom Wigdor, Institute for Life Course & Aging. Upper Dining Room, Faculty Club. 10 a.m. to noon. RSVP by Nov. 12, senior.college@utoronto.ca. *Senior College*

Gendered Socioeconomic Inequalities in Health in Later Life: A Lifecourse Approach.
Wednesday, November 17
Laurie Corna, research associate, comparative program on health and society. 208N Munk School of Global Affairs. 10 a.m. to noon. Registration: www.utoronto.ca/cphs/. *Comparative Program on Health & Society*

Mikhail Kalatozov: The Life and Times of a Soviet Film Director.
Wednesday, November 17
Sergei Kapterev, Research Institute of Cinema Art, Moscow. 108N Munk

School for Global Affairs. 2 to 4 p.m. Registration: www.utoronto.ca/ceres. *European, Russian & Eurasian Studies and History*

Through the Lens of Auschwitz: Rewriting the German-Jewish Past in Postwar Germany.
Thursday, November 18
Prof. Michael Brenner, University of Munich. 2098 Sidney Smith Hall. 4 to 6 p.m. *European, Russian & Eurasian Studies, Joint Initiative in German & European Studies, Jewish Studies and Zacks Chair in Jewish History*

Beauty Queens, Irredentism and the Jewish Question in Interwar Hungary.
Friday, November 19
Prof. Michael Miller, Central European University. 208N Munk School of Global Affairs. 10 a.m. to noon. Registration: www.utoronto.ca/ceres. *European, Russian & Eurasian Studies and Jewish Studies*

The Politics of Global Land Grabbing: Insights From the Philippines, With Glances at Other Southeast Asian Countries.
Friday, November 19
Prof. Saturnino "Jun" Borrás Jr., St. Mary's University. 208N Munk School of Global Affairs. Noon to 2 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. *Southeast Asian Studies and International Studies*

PTI, ETI, RNA-Seq, AS, T3SS and HopXYZ, the Alphabet Soup of Plant-Pathogen Interactions.
Friday, November 19
Prof. Jeff Chang, Oregon State University. 432 Ramsay Wright Building. 2 p.m. *Cell & Systems Biology*

The Subnational Opposition to Latin America's Left Turn: Conflicts Over Recentralization in Bolivia, Ecuador and Venezuela.
Friday, November 19
Prof. Kent Eaton, University of California, Santa Cruz. 3130 Sidney Smith Hall. 2 to 4 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. *Asian Institute and Political Science*

Mediated Politics: Ukrainian Context.
Friday, November 19
Anastasia Prychynenko, Petro Jacyk Visiting Scholar. 208N Munk School of Global Affairs. 2 to 3:30 p.m. Registration: www.utoronto.ca/ceres. *European, Russian & Eurasian Studies and Petro Jacyk Program for the Study of Ukraine*

Suicide in a Central Indian Steel Town.
Monday, November 22
Prof. Jonathan Parry, London School of Economics. 208N Munk School of Global Affairs. 5 to 7 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. *Asian Institute, Anthropology, UTSC Labour History Group and South Asian Studies*

'Galicia' Division Through the Eyes of Its Former Soldiers (on Oral History Sources).
Tuesday, November 23
Oksana Tovaryanska, PhD candidate, Kyiv-Mohyla Academy. 108N Munk School of Global Affairs. 5 to 7 p.m. Registration: www.utoronto.ca/ceres. *European, Russian & Eurasian Studies and Petro Jacyk Program for the Study of Ukraine*

Deep Brain Stimulation.
Tuesday, November 23
Prof. Andres Lozano, surgery. Upper Dining Room, Faculty Club. 10 a.m. to noon. RSVP by Nov. 19, senior.college@utoronto.ca. *Senior College*

Carbon Capture and Storage: An Important Part of Canada's Environment and Energy Strategy.
Wednesday, November 24
Eric Beynon, Integrated CO2 Network — IC02N. 121 Woodsworth College. 4:10 p.m. *Environment*

MEETINGS & CONFERENCES

Shifting Power: The New Ontario and What It Means for Canada.

Friday, November 19 and Saturday, November 20

The program will address Canada's changing realities and assess the implications for Ontario and Canadian public policy, institutions and federalism and will bring together leading scholars of Canadian federalism and public policy, economists and senior representatives from government, the private sector, labour and the media; annual State of the Federation conference. William Doo Auditorium, New College Residence. *Mowat Centre, School of Public Policy & Governance and Institute of Intergovernmental Relations, Queen's University*

MUSIC

FACULTY OF MUSIC EDWARD JOHNSON BUILDING Thursdays at Noon.

Thursday, November 11

Spotlight on Opera. A preview of *Hansel and Gretel*, with excerpts performed by members of the cast. Walter Hall. 12:10 p.m.

Thursday, November 18

Palej for Clarinet; faculty composer Norbert Palej's works for clarinet. Walter Hall. 12:10 p.m.

Faculty Artist Series.

Monday, November 15

Lorna MacDonald, soprano; Peter Stoll, clarinet; Steven Philcox, piano. Walter Hall. 7:30 p.m. Tickets \$25, students and seniors \$15.

Voice Performance Class.

Tuesday, November 16

Songs of Requiem and Light; Mia Bach and the third-year oratorio class. Walter Hall. 12:10 p.m.

Tuesday, November 23

Francesco Pellegrino, tenor. Walter Hall. 12:10 p.m.

Jazz Concerts.

Wednesday, November 17 and Thursday, November 18

Small jazz ensembles. Walter Hall. 7:30 p.m.

Wednesday, November 24

Vocal Jazz Ensemble and 11 O'Clock Orchestra. Walter Hall. 7:30 p.m. Tickets \$15, students and seniors \$10.

World of Music.

Saturday, November 20

gamUT ensemble; Norbert Palej, director. Walter Hall. 7:30 p.m.

Tuesday, November 23

Guitar Orchestra; Jeffrey McFadden, director. Walter Hall. 7:30 p.m.

PLAYS & READINGS

A Child of Survivors.

Thursday to Saturday,

November 11 to November 13;

Tuesday to Saturday,

November 16 to November 20

Adapted from memoir by Bernice Eisenstein; Ralph Small, director. Theatre Erindale production. Erindale Studio Theatre, U of T Mississauga. Fridays and Saturdays, 8 p.m.; weeknights 7:30 p.m. Tickets \$15, students and seniors \$10. Box office: 905-569-4369; www.theatreerindale.com.

FILMS

The Compact and Open Letter: Grasp the Bird's Tail.

Wednesday, November 24

Directed and produced by Brenda Joy Lem. Cheng Yu Tung East Asian Library, 8th floor, Robarts Library. 2:30 to 5 p.m. RSVP: lucy.gan@utoronto.ca; 416-978-1025. Cheng Yu Tung East Asian Library

EXHIBITIONS

ERIC ARTER GALLERY JOHN H. DANIELS FACULTY OF ARCHITECTURE, LANDSCAPE & DESIGN

Extreme Climates: Kuwabara Payne McKenna Blumberg Architects and Manitoba Hydro Place.

To November 27

This exhibition is organized around a series of installations to reveal the inherent complexity underlying what on first glance appears to be a deceptively simple modern glass office tower. Gallery hours: Monday to Friday, 9 a.m. to 5 p.m.; Saturday, noon to 5 p.m.

U OF T ART GALLERY

Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Laidlaw Wing, University College. Gallery hours: Tuesday to Friday, noon to 5 p.m.; Saturday, noon to 4 p.m.

JUSTINA M. BARNICKE GALLERY HART HOUSE

Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Both galleries. Gallery hours: Monday to Saturday, noon to 5 p.m.

BLACKWOOD GALLERY

U OF T MISSISSAUGA
Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Gallery hours: Monday to Friday, noon to 5 p.m.; Saturday and Sunday, noon to 3 p.m.

DORIS MCCARTHY GALLERY

U OF T SCARBOROUGH
Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Wednesday to Friday, 10 a.m. to 4 p.m.; Saturday, noon to 5 p.m.

PONTIFICAL INSTITUTE OF MEDIAEVAL STUDIES LAURENCE K. SHOOK COMMON ROOM

A Hidden Wholeness: The Zen Photography of Thomas Merton.

To December 17

An exhibition of Thomas Merton's photography. Merton (1915-1968) was a writer and Trappist monk at Our Lady of Gethsemani Abbey near Bardstown, Kentucky; prepared by the Thomas

Merton Center at Bellarmine University of Louisville. Hours: 9 a.m. to 6 p.m.

THOMAS FISHER RARE BOOK LIBRARY

Through Foreign Latitudes and Unknown Tomorrows: 300 Years of Ukrainian Émigré Political Culture. To January 14

This exhibition draws on the library's collections of Ucrainica — books, maps, documents, photographs, etc. — to situate Ukraine, to illustrate the diversity of its peoples and to show the depth of Ukrainian political activity abroad; curated by Ksenya Kiebusinski. Hours: Monday to Wednesday and Friday, 9 a.m. to 5 p.m.; Thursday 9 a.m. to 8 p.m.

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VICTORIA UNIVERSITY

VIC 175: Making History, 1836-2011.

An exhibition to inaugurate Victoria University's 175th anniversary celebration; archival photographs, memorabilia and printed materials illustrating Vic's history and archives. Hours: Monday to Friday, 8:30 a.m. to 11 p.m.; Saturday and Sunday, 10 a.m. to 11 p.m.

MISCELLANY

Service of Remembrance.

Thursday, November 11

Annual Service of Remembrance includes a recitation of *In Flanders Fields*, written by UC alumnus John McCrae, the singing of traditional hymns, readings, laying of wreaths, The Last Post, The Lament, Reveille and the royal and national anthems. A reception follows in the Great Hall, Hart House. The Memorial Room will be open for visitors. Soldiers' Tower. 10:15 to 11 a.m.

Fall Swap Event.

Wednesday, November 17

The sustainability office in partnership with UTERN, Campus Co-op and recycling and waste management is encouraging students to drop by and see if there's anything they need or if they want to drop anything off, donations are being accepted during the event. Leftover items will be donated to the Swap Shop United Way Sale. South Borden Building. 10 a.m. to 6 p.m.

Volunteering in the Developing World: Staff, Faculty and Administrators.

Wednesday, November 17

Steven Davis, Academics for Higher Education & Development. Croft Chapter House. 4 to 5 p.m. Information: 416-287-7511 or chan@utsc.utoronto.ca. Academics for Higher Education & Development

Arts! Ability! Access!

Thursday, November 18

A series of events in support of artistic expressions: *Tying Your Own Shoes*, screening of Oscar nominated short documentary. East Common Room. 6 p.m.; A Conversation on Access to Artistic Expression, a panel discussion. East Common Room. 6:30 p.m. Keys to the Studio, a concert featuring bands and solo acts. Arbor Room (Sammy's Pub). 8 p.m. Hart House.

Swap Shop United Way Sale.

Tuesday, November 23 to

Thursday, November 25

All items are on sale, everyone is welcome. In addition to the usual variety (furniture, books, supplies), the shop also has clothing, toys, jewellery, cellphones and more. Swap Shop, South Borden Building. Noon to 2 p.m.

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LECTURES AT THE LEADING EDGE

CHEMICAL ENGINEERING AND APPLIED CHEMISTRY, UNIVERSITY OF TORONTO

WEDNESDAY, NOVEMBER 10

David Tirrell

California Institute of Technology

Reinterpreting the Genetic Code: Non-Canonical Amino Acids in Protein Design, Evolution & Analysis

WEDNESDAY, DECEMBER 8

Menachem Elimelech

Yale University

Science and Technology for Sustainable Water Supply

WEDNESDAY, JANUARY 5

Yury Gogotsi

Drexel University

Carbide-Derived Carbons for Energy Related Applications

All lectures will begin at 12:30 pm and are open to the public.
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U of T Scarborough geology professor Nick Eyles is serving as guest host of CBC-TV's *The Nature of Things* through Nov. 25, taking viewers on a worldwide journey in *Geologic Journey II*. Enjoy some of the beautiful locations he visits to explain the workings of our planet.



COURTESY OF CBC

Clockwise from top left:
Eyles in San Pedro de Atacoma,
Chile; a glacier lake in Iceland;
lava lake of Erta Ale volcano,
Ethiopia; overlooking the
Tasman glacier, New Zealand;
Dallol volcano, Ethiopia;
Hadrian's Wall, England

